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## Amendments to the Claims:

This listing of claims, in which Claims 1, 20 and 36 are amended, will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Currently amended) A method for growing a thin film on a surface of a substrate in a reactor reaction chamber according to the ALD method, said method comprising:

providing a first conduit for delivering a pulse of a first vapor phase reactant and a second conduit for delivering a pulse of a second vapor phase reactant to said <u>reactor reaction chamber</u>,

providing at least a first substrate in a pre-reaction chamber and a second substrate in a said reaction chamber, said first substrate being positioned downstream of a point in the pre-reaction chamber where both said first and said second phase reactants have entered the pre-reaction chamber and said pre-reaction chamber being serially aligned downstream only with said reaction chamber first substrateupstream of said second-substrate;

feeding the pulse of the first vapor phase reactant into said <u>pre-</u>reaction chamber and over the first substrate and subsequently <u>into said reaction chamber and</u> over the second substrate;

reacting the first vapor phase reactant with said surface of said first substrate and subsequently with a surface of said second substrate to form a thin film on said first and second substrates, wherein residual first vapor phase reactant remains in said <u>pre-reaction</u> chamber; and

feeding a pulse of a second vapor phase reactant into said reactor reaction chamber, wherein said second vapor phase reactant reacts with said residual first vapor phase reactant to form a solid reaction product in said <u>pre-</u>reaction chamber on said first substrate and said second vapor phase reactant subsequently reacts with said surface of said second substrate <u>in said reaction chamber</u>.

- 2. (Original) The method of Claim 1, wherein said residual first vapor phase reactant is in the gas phase.
- 3. (Previously presented) The method of Claim 1, wherein said residual first vapor phase reactant is adsorbed on the walls of the reaction chamber.